## 1 WHAT IS CLAIMED IS:

- An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal,
- and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal at each phototaking operation;

calculation means for determining the remaining number of recordable image frames by dividing the remaining capacity of the memory medium with the amount of compressed signal corresponding to an image frame;

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display means for displaying the number of already recorded image frames and said remaining number of recordable image frames.

20 2. An electronic still camera according to claim 1, further comprising:

selection means for selecting either simultaneous display of said number of recorded image frames and said remaining number of recordable image frames,

or display of either one thereof, on said display means.

3. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal at each phototaking operation;

calculation means for determining the remaining number of recordable image frames by dividing the remaining capacity of the memory medium with the amount of compressed signal corresponding to an image frame; and

display switching means for selectively switching either the display of said remaining number of recordable image frames or the display of the remaining capacity of said memory medium.

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4. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining

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capacity of the memory medium;

memory means for memorizing the amount of said compressed signal at each phototaking operation;

calculation means for determining the remaining

number of recordable image frames by dividing the

remaining capacity of the memory medium with the amount

of compressed signal corresponding to an image frame;

and

part for indicating the number of already recorded image frames and a second display part of a belt form positioned surrounding said first display part, and adapted to indicate the number of already recorded image frames and the remaining number of recordable image frames by lighting, in said second display part, only a range corresponding to said remaining number.

5. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal at each phototaking operation; extraction means for extracting the amount of

compressed signal of latest image frames of a predetermined number from said memory means;

calculation means for calculating the average data amount in the image frames of said predetermined

- of recordable image frames by dividing the remaining capacity of the memory medium with said average data amount or said average data amount increased by a predetermined proportion; and
- 10 display means for indicating said remaining number of recordable image frames.
- 6. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium;

- memory means for memorizing the amount of said compressed signal at each phototaking operation; extraction means for extracting, from said memory means, the amount of compressed signal of the
  - image frames recorded in the memory medium;
- calculation means for calculating the average data amount of thus extracted image frames and determining the remaining number of recordable image frames by dividing the remaining capacity of the memory medium

with said average data amount or said average data amount increased by a predetermined proportion; and display means for indicating said remaining number of recordable image frames.

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7. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal at each phototaking operation;

extraction means for extracting the maximum data amount of latest compressed signal from said memory means;

calculation means for determining the remaining number of recordable image frames by dividing the remaining capacity of the memory medium with said maximum data amount; and

display means for displaying said remaining number of recordable image frames.

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8. An electronic still camera capable of A/D conversion of still image signal obtained from an image

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pickup device and compression of the digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium; and

calculation means for determining the remaining number of recordable image frames by dividing the remaining capacity of the memory medium with a predetermined data amount.

9. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal at each phototaking operation;

calculation means for determining the remaining number of recordable image frames by dividing the remaining capacity of the memory medium with the amount of said compressed signal in the latest phototaking operation; and

display means for indicating said remaining

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- 1 number of recordable image frames.
  - 10. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal at each phototaking operation;

extraction means for extracting the maximum and minimum data amounts of compressed signals from said memory means;

calculation means for determining the minimum and maximum remaining numbers of recordable image frames by dividing the remaining capacity of the memory medium respectively with said maximum and minimum data amounts; and

display means for indicating said remaining number of recordable image frames in the form of a range defined by said minimum and maximum remaining numbers.

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11. An electronic still camera according to claim 10, wherein said display means is adapted to

indicate said range defined by the minimum and maximum remaining numbers of recordable image frames, with two integral numbers.

12. An electronic still camera according to claim 10, wherien said display means is adapted to indicate said range defined by the minimum and maximum remaining numbers of recordable image frames, by lighting a part of mutually adjacent display parts.

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13. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal at each phototaking operation;

extraction means for extracting the image signals of the maximum amount, minimum amount and approximately average amount from said memory means;

calculation means for dividing the remaining capacity of the memory medium with said maximum, minimum and said approximately average amounts, thereby obtaining the respectively corresponding

remaining numbers of recordable image frames;

selection means for manually selecting one of said compression signals of the maximum, minimum and approximately average amounts; and

display means for displaying thus selected compressed signal of said maximum, minimum or approximately average amount as a still image and also indicating said remaining number of recordable image frames, corresponding to said selected compressed signal.

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14. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal at each phototaking operation;

extraction means for extracting the amount of compressed signal of latest image frames of a predetermined number, from said memory means;

calculation means for determining the minimum

and maximum remaining numbers of recordable image

frames, by calculating the average data amount in said

image frames of predetermined number and the standard

deviation thereof, and dividing the remaining capacity of the memory medium with said average data amount to which added is said standard deviation increased by a predetermined proportion, thereby

determining the minimum remaining number of recordable image frames, and also dividing the remaining capacity of the memory medium with said average data amount from which subtracted is said standard deviation increased by a predetermined proportion, thereby determining the maximum remaining number of recordable image frames; and

display means for indicating at least either of said minimum and maximum remaining numbers of recordable image frames.

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15. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal at each phototaking operation;

start signal input means for manually entering a start signal for initiating calculation of average;

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extraction means for extracting, from said

means, the amount of compression signal of the image

frames after the entry of the calculation start signal

by said start signal input means;

calculation means for calculating the average data amount in said image frames and determining the remaining number of recordable image frames by dividing the remaining capacity of the memory mediumwith said average data amount; and

display means for indicating said remaining number of recordable image frames.

16. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal at each phototaking operation;

start signal input means for manually entering a start signal for initiating calculation of average;

extraction means for extracting, from said memory means, the amount of compression signal of the image frames after the entry of the calculation

start signal by said start signal input means;

calculation means for determining the minimum and maximum remaining numbers of recordable image frames, by calculating the average data amount in said image frames of predetermined number and the standard deviation thereof, and dividing the remaining capacity of the memory medium with said average data amount to which added is said standard deviation increased by a predetermined proportion, thereby determining the minimum remaining number of recordable image frames, and also dividing the remaining capacity of the memory medium with said average data amount from which subtracted is said standard deviation increased by a predetermined proportion, thereby determining the maximum remaining number of recordable image frames; and

display means for indicating at least either of said minimum and maximum remaining numbers of recordable image frames.

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17. An electronic still camera according to claim 16, wherein said calculation means is adapted to determine the remaining number of recordable image frames by dividing said remaining capacity of the memory medium with a predetermined value, immediately after the manual entry of said calculation start signal and in case the phototaking operation has not

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taken place.

- 18. An electronic still camera according to claim 16, wherein said calculation means is adapted to determine the remaining number of recordable image frames by dividing said remaining capacity of the memory medium with an immediately preceding average value, immediately after the manual entry of said calculation start signal and in case the phototaking operation has not taken place.
- 19. An electronic still camera according to claim 16, wherein a mounting operation of the memory medium constitutes the manual operation, for entering said average calculation start signal, in said start signal input means.
- 20. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal at each phototaking operation;

1 calculation means for determining the remaining number of recordable image frames by dividing the remaining capacity of the memory medium with a predetermined data amount until a predetermined number of image frames is reached, and, beyond said predetermined 5 number, calculating the average data amount of the image frames recorded in the memory medium and the standard deviation thereof, and determining the minimum remaining number of recordable image frames by dividing 10 the remaining capacity of the memory medium with said average data amount to which added is said standard deviation increased by a predetermined proportion, and the maximum remaining number of recordable image frames by dividing the remaining capacity of the memory medium 15 with said average data amount from which subtracted is said standard deviation increased by a predetermined

display means for indicating said remaining number of recordable image frames, or at least either of said minimum and maximum remaining numbers of recordable image frames.

proportion; and

21. An electronic still camera according to claim
20, wherein said predetermined frame number is determined, based on the remaining capacity of said
memory medium detected by said detection means.

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22. An electronic still camera according to claim 20, wherein said proportion of increase applied on said standard deviation in said calculation means beyond said predetermined number of image frames is a positive constant increasing with the number of recorded image frames.

23. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal, and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

compression rate selection means for selecting one of plural compression rates with which said compression of the digitized signal can be conducted;

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal and the compression rate thereof for each phototaking operation;

extraction means for extracting, from said memory means, the maximum and minimum amounts of the compressed signal for each compression rate;

and maximum remaining numbers of recordable image
frames for each compression rate, by dividing the

- remaining capacity of the memory medium with said
  maximum data amounts thereby determining the minimum
  remaining numbers of recordable image frames for the
  resepctive compression rates, and by dividing the
- remaining capacity of the memory medium with said
  minimum data amounts thereby determining the maximum
  remaining numbers of recordable image frames for the
  respective compression rates; and

display means for indicating the remaining

number of recordable image frames in the form of a

range defined by the minimum and maximum remaining

numbers of recordable image frames for the currently

selected compression rate.

- 24. An electronic still camera according to claim
  23, wherein said compression rate selection means is
  adapted to automatically vary the compression rate when
  said detection means detects that the remaining
  capacity of the memory medium has become equal to or
  less than a predetermined value, and said display means
  is adapted to indicate the remaining number of recordable
  image frames with a range based on thus varied compression rate.
- 25. An electronic still camera capable of A/D conversion of still image signal obtained from an image pickup device and compression of thus digitized signal,

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and provided with a memory medium capable of recording thus compressed signal plural times, comprising:

compression rate selection means for selecting one of plural compression rates with which said compression of the digitized signal can be conducted;

detection means for detecting the remaining capacity of the memory medium;

memory means for memorizing the amount of said compressed signal and the compression rate thereof for each phototaking operation;

extraction means for extracting, from said memory means, the maximum and minimum amounts of the compressed signal for each compression rate;

calculation means for determining the minimum and maximum remaining numbers of recordable image frames for each compression rate, by dividing the remaining capacity of the memory medium with said maximum data amounts thereby determining the minimum remaining numbers of recordable image frames for the respective compression rates, and by dividing the remaining capacity of the memory medium with said minimum data amounts thereby determining the maximum remaining numbers of recordable image frames for the respective compression rates; and

display means for indicating at least either of the minimum and maximum remaining numbers of recordable image frames for the currently selected

compression rate.

26. An electronic still camera according to claim 25, wherein said compression rate selection means is adapted to automatically vary the compression rate when said detection means detects that the remaining capacity of the memory medium has become equal to or less than a predetermined value, and said display means is adapted to indicate the remaining number of recordable image frames with a range based on thus varied compression rate.